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(71) Applicant (for all designated States except US): DI-
GENE CORPORATION [US/US]; 1201 Clopper Road,
Gaithersburg, MD 20878 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LAZAR, James, G.
[US/US]; 9914 Belhaven Road, Bethesda, MD 20817 (US).
ZAKEL, Joan, M. [US/US]; 13317 Hunt Ridge Road,
Ellicott City, MD 21042 (US). STRANGE, Christina, M.
[US/US]; 188 Stoneybrook Court, Frederick, MD 21702
(US). WILLIAMS, Inna, R. [US/US]; 504 Carr Av-
enue, Rockville, MD 20850 (US). LORINCZ, Attila, T.
[US/US]; 6 Chinaberry Court, North Potomac, MD 20878
(US). DE LA ROSA, Abel [US/US]; 6580 Ridgefield
Drive, Alpharetta, GA 30005 (US).

(74) Agents: MOROZ, Eugene et al.; Morgan & Finnegan,
L.L.P., 3 World Financial Center, New York, NY 10281-
2101 (US).

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(54) Title: IMMUNOLOGICAL DETECTION OF RNA:DNA HYBRIDS ON MICROARRAYS

(57) Abstract: The present invention provides a hybridization method and kit for the detection and measurement of biological molecules. A test sample containing the biological molecules of interest is hybridized with an unlabeled or optionally a detectably-la-
beled complementary biomolecule to form a double-stranded hybrid immobilized to a solid phase. The immobilized hybrid may be
detected with an entity which specifically recognizes an RNA:DNA hybrid, followed by analyses and quantification. Therefore,
the present invention provides a method and kit to detect and measure biological molecules that is simple to use, highly specific,
sensitive, and accurate for screening a plurality of biological molecules.

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A. CLASSIFICATION OF SUBJECT MATTER
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Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/36681 A (DIGENE CORPORATION) 25 May 2001 (2001-05-25)	1-15
Y	the whole document	16-22
Y	WO 99/40224 A (DIGENE CORPORATION) 12 August 1999 (1999-08-12)	16-22
	the whole document	
A	WO 00/60116 A (TROPIX, INC) 12 October 2000 (2000-10-12)	
	figures 10-15	

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☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Pilat, D

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